

Attachment 6

Budget

Budget

Groundwater Recharge Mapping and Water Quality Protection Program Western Placer County, California

The attached budget contains the following documentation and sequencing:

- Budget Summary Sheet
- Individual Task and Subtask Summary Sheets
- Detailed Budgeting Sheets Per Task and Subtask including Surveyors, Professional Services, Drilling Cost Estimates, and Monitoring Well Construction Material Summary List, and Water Quality Analysis

The costs presented were developed through the following sources:

- Drilling and construction costs were from the 2008 AB303 Monitoring Well Construction bids, which were received in mid-2009. The mid-range bid costs were used for this estimate. It is anticipated that cost for construction have remained flat since these bids were prepared. A contingency of 10% has been added to the cost estimate to cover any unanticipated escalation of cost. The City of Roseville will pay for any cost overages beyond the grant amount.
- Water quality analytical costs for General Mineral and Drinking Water Metals were obtained from CLS Laboratories of Sacramento. Analytical costs for Stable Isotopes were obtained from Zymax Laboratories of San Luis Obispo, California. Both estimates were obtained in June 2012.
- Land surveying costs for arranging property easements and location and elevation of the monitoring wells was obtained from Andregg Geomatics, a California Licensed Land Surveyor. The estimate was obtained in June 2012.
- Professional hydrogeologic services estimates and rates were obtained from GEI Consultants, Inc. The estimate was obtained in June 2012.
- Local contribution costs for project management, filing of land easements, preparation of environmental documentation, and long-term monitoring costs approximately estimated and will be provided by the City of Roseville and its WPC Partners. Local contributions also include the land for construction of the monitoring wells but this has not been itemized in the budget tables.

Budget Summary
Groundwater Recharge Mapping and Water Quality Protection Program
Western Placer County, California

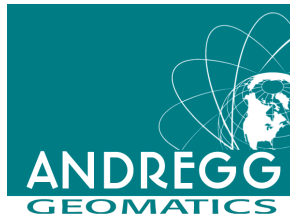
Description	Requested Grant Funds	Local Contribution	Total Costs
Task 1 - Project Administration and Management	\$0	\$10,000	\$10,000
Task 2 - Land Easements	\$2,290	\$0	\$2,290
Task 3 - Environmental Documentation	\$0	\$5,000	\$5,000
Task 4 - Project Evaluation, Design, and Construction			
Task 4.1 - Bidding and Contractor Selection	\$12,473	\$2,000	\$14,473
Task 4.2 - Well Construction	\$169,913	\$24,504	\$194,417
Task 4.3 - Water Quality Sampling and Analysis	\$13,598	\$0	\$13,598
Task 4.4 - Surveying	\$3,856	\$0	\$3,856
Task 4.5 - Long Term Monitoring (five years)	\$7,389	\$5,000	\$12,389
Task 5 - Well Completion Report Preparation	\$27,169	\$2,000	\$29,169
Task 6 - Construction Management	\$13,312	\$0	\$13,312
Totals	\$250,000	\$48,504	\$ 298,504

Contract #			Engineer's Estimate
Project	Task 1 - Project Adminstration and Management		RANK N/A
		CONTRACTOR	
Client	City of Roseville		
Proj Mgr	C. Lee/R. Shatz	ADDRESS:	
Bid Date		CITY	
Project #		PHONE NO	
		FAX NO	
		CONTACT PERSON	

Professional Services	\$0
Subtotal (Grant Funded)	\$0
Local Contribution (Non-Grant Funded)	\$10,000

Contract #			Engineer's Estimate
Project	Task 2 - Land Easements	CONTRACTOR	RANK N/A
Client	City of Roseville		
Proj Mgr	C. Lee/R. Shatz	ADDRESS:	
Bid Date		CITY	
Project #		PHONE NO	
		FAX NO	
		CONTACT PERSON	

Surveyor	\$2,290
Subtotal (Grant Funded)	\$2,290
Local Contribution (Non-Grant Funded)	\$0



We take your position precisely.

July 12, 2012

**** Revised Proposal ****

Mr. David Fairman
Staff Geologist
GEI Consultants
2868 Prospect Drive, Suite 400
Rancho Cordova, CA 95670

Phone: (415) 420-2154
Email: DFairman@geiconsultants.com
P12-0356R

**RE: Well Site Surveys (Revised Proposal)
Western Placer County Groundwater Management Plan
Western Placer County, CA**

Dear David:

This letter and the attached standard form are our proposal and contract to provide surveying and mapping services for the Western Placer County Well Sites. Our proposed scope of work and estimate of fees are as follows:

Task 1: Well Site Location and Elevation

Provide field surveys and office services to locate and elevate six (6) wells as staked, flagged and mapped by GEI Consultants. Prepare a schedule of data and index map.

Fee: \$2,640

Task 2: Description and Plat

Provide field surveys and office services to locate one proposed easement area as staked by GEI Consultants in relationship to parcel boundaries, determine relationship of well site to property boundaries, calculate easement configuration and prepare legal description and plat for one easement.

Fee: \$2,290

[Auburn](#) | [Sacramento](#) | [Fairfield](#) | [Oakland](#) | [Los Angeles](#) | [Truckee](#)

Corporate

11661 Blocker Drive, Suite 200, Auburn, CA 95603 | 800.400.7072 | 530.885.5798 Fax

The above estimated fees shall not be exceeded without prior authorization from client and shall remain valid for 30 days.

Our current schedule enables us to begin work at your direction and complete our work within 10 working days. This schedule is subject to review when work is authorized. If you would like us to proceed, please sign and return a copy of this letter agreeing to the scope of work, the fee, the schedule, and to the terms of the Standard Provisions ACEC-Form B enclosed.

Thank you for this opportunity. If you have any questions or need additional information, please call.

Sincerely,
ANDREGG GEOMATICS



Dennis Meyer, PLS
CEO / President

Authorization to Proceed

Date

Auburn, CA

Please Print Name

(Owner, Pres., V/P, Director, Officer, Proxy, etc.)

(Signing Capacity)

Attachment: ACEC - Form B: Standard provisions of Agreement between Client & Consultant



Contract #			Engineer's Estimate	
Project	Task 3 - Environmental Documentation		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Professional Services	\$0
Subtotal (Grant Funded)	\$0
Local Contribution (Non-Grant Funded)	\$5,000

Contract #			Engineer's Estimate	
Project	Subtask 4.1 - Bidding and Contractor Selection		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Professional Services	\$	12,473
Subtotal (Grant Funded)		\$12,473
Local Contribution (Non-Grant Funded)		\$2,000

Task 4.1 - Bidding and Contractor Selection - Professional Services Estimate

Groundwater Recharge Mapping and Water Quality Protection Program Western Placer County, California

<u>Labor</u>	<u>Rate</u>	<u>Units</u>	<u>Hours</u>	<u>Fee</u>	<u>Expenses</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
Senior Principal	288 Hrs.		0	\$ -	Mileage	\$ 0.555	mile	35	\$ 19
Senior Consultant - Grade 9	288 Hrs.		0	\$ -	Reproduction	\$ -	L/S		\$ -
Senior Consultant - Grade 8	234 Hrs.		0	\$ -	Shipping	\$ -	L/S		\$ -
Senior Professional - Grade 7	208 Hrs.		26	\$ 5,408	Laboratory Testing	\$ -	L/S		\$ -
Senior Professional - Grade 6	175 Hrs.		0	\$ -	Equipment Rental	\$ -	day		\$ -
Senior Professional - Grade 5	154 Hrs.		0	\$ -	Consumables	\$ -	week		\$ -
Project Professional - Grade 4	130 Hrs.		0	\$ -	Lodging	\$ -	day		\$ -
Project Professional - Grade 3	116 Hrs.		52	\$ 6,032	Per Diem	\$ -	day		\$ -
Staff Professional - Grade 2	106 Hrs.		0	\$ -	Permit Fees	\$ -	L/S		\$ -
Staff Professional - Grade 1	96 Hrs.		0	\$ -					
Sr. CADD Drafter and Designer	116 Hrs.		8	\$ 928				Expenses:	\$ 19
CADD Drafter/Designer and Senior Technician	106 Hrs.		0	\$ -					
Technical, Word Processor, Administrative Sta	86 Hrs.		1	\$ 86					
Office Aid	68 Hrs.		0	\$ -					
					<u>Subcontractors</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
					-	\$ -	L/S		\$ -
					-	\$ -	L/S		\$ -
					-	\$ -	L/S		\$ -
				Direct Labor: \$					
				12,454				Subcontractors: \$	-

<u>SUB-TASKS</u>	Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
Prepare Plans and Specifications				1				24						
Prepare Drawings				1				2			8			
Prepare bid Schedules				1				5						
Senior Review				8										
Incorporate Comments								8						
Incorporate Client Review Comments				2				4						
Add General Conditions and Final				1				2						
Final review comments from client				2				2						
Copy for final bid								3						
Pre-bid Meeting				8										
Prepare addendum and distribute				2				2					1	
TOTAL	0	0	0	26	0	0	0	52	0	0	8	0	1	0

Task Subtotal:

\$ 12,473

Contract #		CONTRACTOR	Engineer's Estimate	
Project	Subtask 4.2 - Monitoring Well Construction		RANK	N/A
Client	City of Roseville	ADDRESS:		
Proj Mgr	C. Lee/R. Shatz			
Bid Date				
Project #				
		CITY		
		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Item No.	Item	Unit	Quantity	Unit Cost	Item Cost
1	Mobilization/Demobilization	LS	1	\$6,000	\$6,000
2	Site to Site	LS	5	\$2,200	\$11,000
3	Install temporary fencing	LS	3	\$400	\$1,200
4	8" Diameter Pilot Hole Drilling	LF	1290	\$28	\$36,120
5	14" Diameter Reaming	LF	50	\$38	\$1,900
6	12" Diameter Reaming	LF	260	\$35	\$9,100
7	8" Diameter Reaming/hole cleanout	LF	770	\$28	\$21,560
8	Geophysical Logs (Electric) and Caliper Survey	LS	4	\$2,500	\$10,000
9	2-inch , PVC, Sch 40, flush thread Well Casing, plus centralizers every 60 feet	LF	1295	\$4.10	\$5,310
10	2-inch, PVC, Sch 40, flush thread Well Screen	LF	220	\$7.20	\$1,584
11	Borehole Seals	LF	770	\$20	\$15,400
12	Gravel Envelop	LF	380	\$19	\$7,220
13	Sanitary Seals	LF	140	\$15	\$2,100
14	Well Development - Bailing and Surging/Air-Lift	HR	20	\$190	\$3,800
15	Furnish and Install Sampling Pumps	LS	10	\$125	\$1,250
16	Pump Develop	HR	20	\$125	\$2,500
17	Furnish and install enclosures and bouldards	LS	6	\$1,200	\$7,200
18	Drill cuttings and mud disposal	LS	6	\$1,000	\$6,000
19	Standby	HR	8	\$450	\$3,600
Total Bid Price					\$152,844

Contingency (10%)	\$15,284
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Professional Services	\$ 26,289
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Subtotal	\$194,417
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Grant Funded	\$169,603
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Local Contribution - Land (Non-Grant Funded)	\$24,814
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Monitoring Well Construction - Summary of Materials
Groundwater Recharge Mapping and Water Quality Protection Program
Western Placer County

				WPCMW-5A (80-100)	WPCMW-5B (630-650)	Lincoln Estates Park1 WPCMW-9A (20-40)	Lincoln Estates MW-10	WPCMW-10A (20-40)	WPCMW-10B (120-140)	WPCMW-10C (240-260)	Roseville Parkway WPCMW-7A (20-40)	Roseville Parkway MW-8	WPCMW-8A (20-40)	WPCMW-8B (120-140)	WPCMW-6A Scarborough (25-65)
Item No.	Description	Units	Sum	Walerga											
1	Mobilization/Demobilization	LS	1	1											
2	Site to Site	LS	5			1	1				1	1			1
3	Install temporary fencing	LS	3				1					1			1
4	8" Diameter Pilot Hole Drilling	LF	1290	660		50	270				50	150			110
5	14" Diameter Reaming	LF	50		0			50							
6	12" Diameter Reaming	LF	260		110				100				50		
7	8" Diameter Reaming/hole cleanout	LF	770			550				120				100	
8	Geophysical Logs (Electric) and Cal	LS	4	1			1					1			1
9	2-inch , PVC, Sch 40, flush thread W	LF	1295		80	630	20	20	120	240	20		20	120	25
10	2-inch, PVC, Sch 40, flush thread W	LF	220		20	20	20	20	20	20	20		20	20	40
11	Borehole Seals	LF	770			510		10	60	80				60	50
12	Gravel Envelop	LF	380		40	40	30	40	40	40	30		30	40	50
13	Sanitary Seals	LF	140		60		20				20		20		20
14	Well Development - Bailing and Surg	HR	20		2	2	2	2	2	2	2		2	2	2
15	Furnish and Install Sampling Pumps	LS	10		1	1	1	1	1	1	1		1	1	1
16	Pump Develop	HR	20		2	2	2	2	2	2	2		2	2	2
17	Furnish and install enclosures and b	LS	6	1			1				1	1			1
18	Drill cuttings and mud disposal	LS	6	1		1	1				1	1			1
19	Standby	HR	8	2			2					2			2

**Groundwater Recharge Mapping and Water Quality Protection Program
Western Placer County, California**

<u>SUB-TASKS</u>	Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
Well Construction and Development														
Walerga (WPCMW-5)				4				5	50					
Lincoln Estates Park (MW-9)				4				2	16					
Lincoln Estates Park (MW-10)				4				4	40					
Roseville Parkway (MW-7)				4				2	16					
Roseville Parkway (MW-8)				4				4	40					
Scarborough (MW-6)				4				2	16					
TOTAL	0	0	0	24	0	0	0	19	178	0	0	0	0	0

Task Subtotal:
\$ 26,289

Contract #		<div>CONTRACTOR</div> <div>ADDRESS:</div> <div>CITY</div> <div>PHONE NO</div> <div>FAX NO</div> <div>CONTACT PERSON</div>	Engineer's Estimate	
Project	Subtask 4.3 - Water Quality Sampling		RANK	N/A
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz			
Bid Date				
Project #				

Item No.	Item	Unit	Quantity	Unit Cost	Item Cost
20	Water Quality Sampling (Contractor Services)	HR	20	\$125	\$2,500
Total Bid Price					\$2,500

Water Quality (CLS and Zymax)	\$	4,850
Professional Services		\$6,248
Subtotal		\$13,598
Local Contribution (Non-Grant Funded)		\$0

Western Placer County, California

Subcontractors: \$ -

Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
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TOTAL	0	0	0	0	0	0	0	10	48	0	0	0	0	0
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\$	6,248
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Task 4.3
Analytical Parameters, Test Methods, Holding Times,
Sample Containers, Preservation and Approximate Detection Limits
For Groundwater Samples

Parameter	ANALYTICAL TESTING METHOD	MAXIMUM HOLDING TIME	SAMPLE CONTAINER		PRESERVATION	MINIMUM REPORTING LIMIT	COST
			BOTTLE TYPE	SIZE/SET			
General Minerals/Conventional Chemistry							
Calcium	EPA 200.7	6 Months	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	\$155.00
Magnesium	EPA 200.7	6 Months	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Sodium	EPA 200.7	6 Months	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Potassium	EPA 200.7	6 Months	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Bicarbonate	SM 2320-B	14 Days	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Sulfate	EPA 300.0	28 Days	Plastic	1 Liter	Cool to 4 °C	0.50 mg/L	inc.
Chloride	EPA 300.0	28 Days	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Nitrate, (Nitrate as NO3)	EPA 300.0	48 Hours	Plastic	1 Liter	Cool to 4 °C	2.0 mg/L	inc.
Nitrite (as N)	EPA 300.0	48 Hours	Plastic	1 Liter	Cool to 4 °C	0.1 mg/L	inc.
Fluoride	EPA 300.0	28 Days	Plastic	1 Liter	Cool to 4 °C	0.1 mg/L	inc.
pH	EPA 150.1	Immediate	Plastic	1 Liter	Cool to 4 °C	None Required	inc.
Total Dissolved Solids (TDS)	SM 2450-C	7 Days	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
Specific Conductance (EC)	SM 2510-B	28 Days	Plastic	1 Liter	Cool to 4 °C	10 umhos/cm	inc.
Akalinity	EPA 310.1	14 Days	Plastic	1 Liter	Cool to 4 °C	5 mg/L	inc.
Hardness	SM2340B	6 Months	Plastic	1 Liter	Cool to 4 °C	1.0 mg/L	inc.
MBAS	SM5540C	48 Hours	Plastic	1 Liter	Cool to 4 °C	0.1 mg/L	inc.
Turbidity	EPA 180.1	48 Hours	Amber Glass	250 ml.	Cool to 4 oC	0.5 NTU	inc.
Metals							
Drinking Water Metals (dissolved)	EPA 200 Series	6 Months	Plastic	200 mL	HNO3, cool to 4 °C	Varies	\$175.00
Hexavalent Chromium	EPA 218.6	7 days	Plastic	125 mL.	NH3 + NH4 (pH 9)	1 ug/L	\$45.00
Other - Stable Isotopes							
2H	EPA 200.7	6 Months	Plastic	1 Liter	HCL, Cool to 4 °C	0.05 mg/L	\$50.00
Oxygen 18	EPA 200.7	6 Months	Plastic	200 mL	HNO3, cool to 4 °C	0.05 mg/L	\$50.00
Isotope Sample Shipping							\$10.00

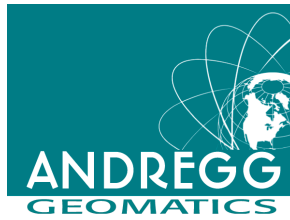
Cost per Sample	\$ 485
Total number of Samples	10
TOTAL COST	\$ 4,850

Notes:

Analytical costs for General Mineral and Metals from CLS June 2012
Analytical costs for Stable Isotopes from Zymax Laboratory June 2012

Contract #			Engineer's Estimate	
Project	Subtask 4.4 - Surveying		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Surveying	\$2,640
Professional Services	\$1,216
Subtotal (Grant Funded)	\$3,856
Local Contribution (Non-Grant Funded)	\$0



We take your position precisely.

July 12, 2012

**** Revised Proposal ****

Mr. David Fairman
Staff Geologist
GEI Consultants
2868 Prospect Drive, Suite 400
Rancho Cordova, CA 95670

Phone: (415) 420-2154
Email: DFairman@geiconsultants.com
P12-0356R

**RE: Well Site Surveys (Revised Proposal)
Western Placer County Groundwater Management Plan
Western Placer County, CA**

Dear David:

This letter and the attached standard form are our proposal and contract to provide surveying and mapping services for the Western Placer County Well Sites. Our proposed scope of work and estimate of fees are as follows:

Task 1: Well Site Location and Elevation

Provide field surveys and office services to locate and elevate six (6) wells as staked, flagged and mapped by GEI Consultants. Prepare a schedule of data and index map.

Fee: \$2,640

Task 2: Description and Plat

Provide field surveys and office services to locate one proposed easement area as staked by GEI Consultants in relationship to parcel boundaries, determine relationship of well site to property boundaries, calculate easement configuration and prepare legal description and plat for one easement.

Fee: \$2,290

[Auburn](#) | [Sacramento](#) | [Fairfield](#) | [Oakland](#) | [Los Angeles](#) | [Truckee](#)

Corporate

11661 Blocker Drive, Suite 200, Auburn, CA 95603 | 800.400.7072 | 530.885.5798 Fax

The above estimated fees shall not be exceeded without prior authorization from client and shall remain valid for 30 days.

Our current schedule enables us to begin work at your direction and complete our work within 10 working days. This schedule is subject to review when work is authorized. If you would like us to proceed, please sign and return a copy of this letter agreeing to the scope of work, the fee, the schedule, and to the terms of the Standard Provisions ACEC-Form B enclosed.

Thank you for this opportunity. If you have any questions or need additional information, please call.

Sincerely,
ANDREGG GEOMATICS



Dennis Meyer, PLS
CEO / President

Authorization to Proceed _____ Auburn, CA
Date

Please Print Name

(Owner, Pres., V/P, Director, Officer, Proxy, etc.) (Signing Capacity)

Attachment: ACEC - Form B: Standard provisions of Agreement between Client & Consultant



Task 4.4 - Surveying

Groundwater Recharge Mapping and Water Quality Protection Program

Western Placer County, California

[illegible]

SUB-TASKS

SUB-TASKS	Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
Coordiante land surveyor								8						
Review results for reasonableness								2						
TOTAL	0	0	0	0	0	0	0	10	0	0	0	0	0	0

Task Subtotal:

\$ 1,216

Contract #			Engineer's Estimate	
Project	Subtask 4.5 - Long-Term Monitoring		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Professional Services	\$7,389
Subtotal (Grant Funded)	\$7,389
Local Contribution - One Year (Non-Grant Funded)	\$5,000

Task 4.5 - Long Term Monitoring - Professional Services Estimate

Groundwater Recharge Mapping and Water Quality Protection Program

Western Placer County, California

[illegible]

SUB-TASKS

SUB-TASKS	Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
Monthly Groundwater Level Measurements (3)										33				
QA/QC								3						
Presentation of results								4						
Install transducers										16				
Download data monthly										16.5				
TOTAL	0	0	0	0	0	0	0	7	0	65.5	0	0	0	0

Task Subtotal:

\$ 7,389

Contract #			Engineer's Estimate	
Project	Task 5 - Well Completion Report Preparation		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Professional Services	\$27,169
Subtotal (Grant Funded)	\$27,169
Local Contribution (Non-Grant Funded)	\$2,000

Task 5 - Well Completion Report Preparation - Professional Services Estimate

**Groundwater Recharge Mapping and Water Quality Protection Program
Western Placer County, California**

<u>Labor</u>	<u>Rate</u>	<u>Units</u>	<u>Hours</u>	<u>Fee</u>	<u>Expenses</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
Senior Principal	300 Hrs.	0	\$	-	Mileage	\$ 0.555	mile	\$	-
Senior Consultant - Grade 9	300 Hrs.	0	\$	-	Reproduction	\$	- L/S	\$	-
Senior Consultant - Grade 8	243 Hrs.	0	\$	-	Shipping	\$	- L/S	\$	-
Senior Professional - Grade 7	216 Hrs.	28	\$	6,057	Laboratory Testing	\$	- L/S	\$	-
Senior Professional - Grade 6	182 Hrs.	0	\$	-	Equipment Rental	\$	- day	\$	-
Senior Professional - Grade 5	160 Hrs.	0	\$	-	Consumables	\$	- week	\$	-
Project Professional - Grade 4	135 Hrs.	0	\$	-	Lodging	\$	- day	\$	-
Project Professional - Grade 3	121 Hrs.	127	\$	15,321	Per Diem	\$	- day	\$	-
Staff Professional - Grade 2	110 Hrs.	0	\$	-	Permit Fees	\$	- L/S	\$	-
Staff Professional - Grade 1	100 Hrs.	0	\$	-					
Sr. CADD Drafter and Designer	121 Hrs.	28	\$	3,378			Expenses:	\$	-
CADD Drafter/Designer and Senior Technician	110 Hrs.	0	\$	-					
Technical, Word Processor, Administrative Staff	89 Hrs.	8	\$	716	<u>Subcontractors</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
Office Aid	71 Hrs.	24	\$	1,697	-	\$	- L/S	\$	-
					-	\$	- L/S	\$	-
					-	\$	- L/S	\$	-
Direct Labor:	\$			27,169					
							Subcontractors:	\$	-

<u>SUB-TASKS</u>	Senior Princ.	Grade 9	Grade 8	Grade 7	Grade 6	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	Sr. CADD/GIS	CADD	Word Proc.	Office Aid
<u>Monitoring Well Completion Report</u>														
Report Writing and Analysis								80						
Figures								7			28			
Review				12				12					8	
Production														24
Comments from Roseville				8				8						
Address comments from DWR				4				4						
Prepare Project Closeout Report				4				16						
TOTAL	0	0	0	28	0	0	0	127	0	0	28	0	8	24

Task Subtotal:
\$ **27,169**

Contract #			Engineer's Estimate	
Project	Task 6 - Construction Management		RANK	N/A
		CONTRACTOR		
Client	City of Roseville			
Proj Mgr	C. Lee/R. Shatz	ADDRESS:		
Bid Date		CITY		
Project #		PHONE NO		
		FAX NO		
		CONTACT PERSON		

Professional Services	\$13,312
Subtotal (Grant Funded)	\$13,312
Local Contribution (Non-Grant Funded)	\$0

Task 6 - Construction Management - Professional Services Estimate

**Groundwater Recharge Mapping and Water Quality Protection Program
Western Placer County, California**

<u>Labor</u>	<u>Rate</u>	<u>Units</u>	<u>Hours</u>	<u>Fee</u>	<u>Expenses</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
Senior Principal	288 Hrs.	0	\$	-	Mileage	\$ 0.56	mile		\$ -
Senior Consultant - Grade 9	288 Hrs.	0	\$	-	Reproduction	\$ -	L/S		\$ -
Senior Consultant - Grade 8	234 Hrs.	0	\$	-	Shipping	\$ -	L/S		\$ -
Senior Professional - Grade 7	208 Hrs.	64	\$	13,312	Laboratory Testing	\$ -	L/S		\$ -
Senior Professional - Grade 6	175 Hrs.	0	\$	-	Equipment Rental	\$ -	Wk		\$ -
Senior Professional - Grade 5	154 Hrs.	0	\$	-	Consumables	\$ -	week		\$ -
Project Professional - Grade 4	130 Hrs.	0	\$	-	Lodging	\$ -	day		\$ -
Project Professional - Grade 3	116 Hrs.	0	\$	-	Per Diem	\$ -	day		\$ -
Staff Professional - Grade 2	106 Hrs.	0	\$	-	Permit Fees	\$ -	L/S		\$ -
Staff Professional - Grade 1	96 Hrs.	0	\$	-					
Sr. CADD Drafter and Designer	116 Hrs.	0	\$	-				Expenses:	\$ -
CADD Drafter/Designer and Senior Technicia	106 Hrs.	0	\$	-					
Technical, Word Processor, Administrative St	86 Hrs.	0	\$	-	<u>Subcontractors</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Fee</u>
Office Aid	68 Hrs.	0	\$	-	-	\$ -	L/S		\$ -
					-	\$ -	L/S		\$ -
					-	\$ -	L/S		\$ -
Direct Labor:	\$			13,312					
								Subcontractors:	\$ -

<u>SUB-TASKS</u>	<u>Senior Princ.</u>	<u>Grade 9</u>	<u>Grade 8</u>	<u>Grade 7</u>	<u>Grade 6</u>	<u>Grade 5</u>	<u>Grade 4</u>	<u>Grade 3</u>	<u>Grade 2</u>	<u>Grade 1</u>	<u>Sr. CADD/GIS</u>	<u>CADD</u>	<u>Word Proc.</u>	<u>Office Aid</u>
Well Construction Coordination				52										
Water Quality Sampling				4										
Transducers				4										
Change Orders				4										

TOTAL	0	0	0	64	0	0	0	0	0	0	0	0	0	0
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Task Subtotal:

\$ 13,312